STRIVING FOR COMPREHENSIVE WATERSHED MANAGEMENT & LOCAL CONSENSUS

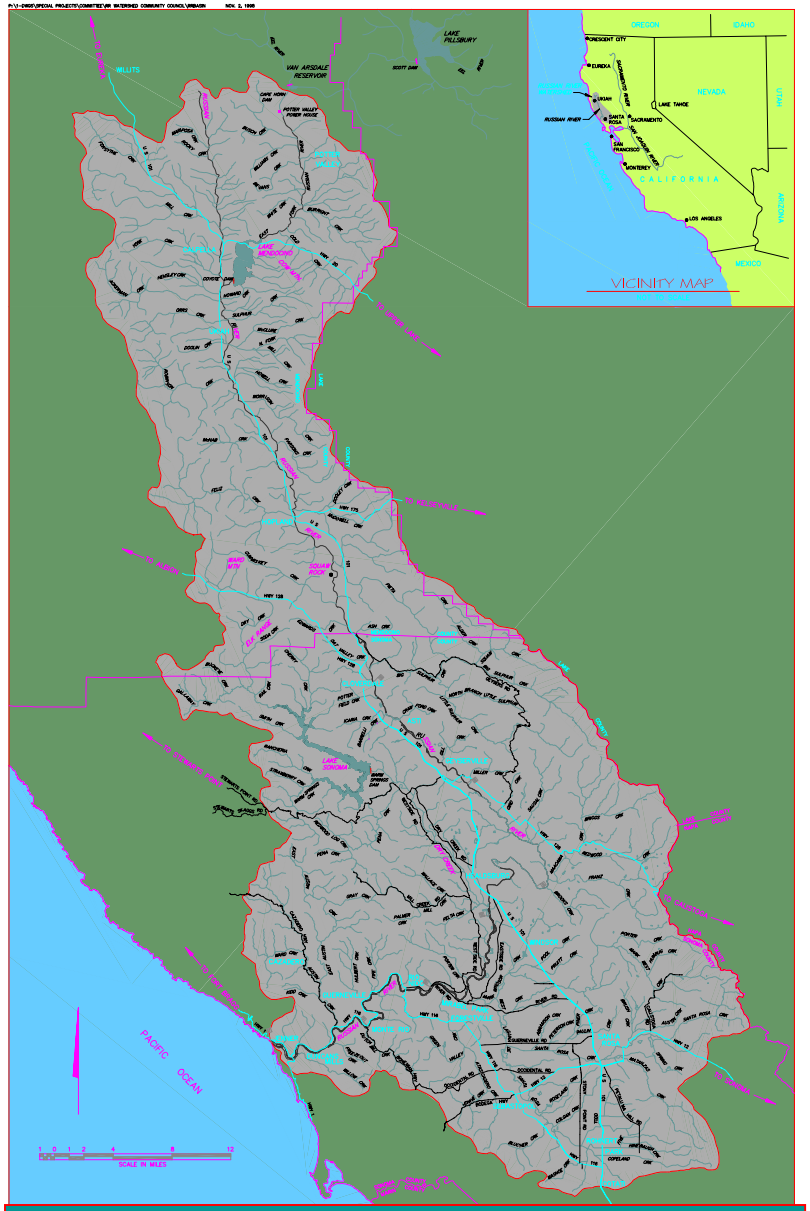
- Russian River Watershed Management and Protection Study
- San Pablo Bay Watershed Study
- Napa Valley Watershed Management Study

RUSSIAN RIVER WATERSHED MANAGEMENT & PROTECTION STUDY

Supporting Active Community Involvement

RUSSIAN RIVER WATERSHED COUNCIL

www.spn.usace.army.mil/russian



Russian River Watershed

RUSSIAN RIVER WATERSHED EFFORT

- **1,485 SQUARE MILES**
- **SONOMA AND MENDOCINO COUNTIES**
- **SIGNED FEASIBILITY COST SHARING AGREEMENT - JUNE 2000**
- **$6.2 MILLION EFFORT**
- **5 YEARS - PHASE I - 2 years**
  PHASE II - 3 year
- **ADDRESS LOCAL ISSUES OF CONCERN**

Federal Listed Species

- **Coho and Chinook Salmon**
- **Steelhead Trout**
- **Section 7 - National Marine Fisheries Service, Sonoma County Water Agency, & Corps of Engineers.**

CHINOOK SALMON

COHO SALMON

STEELHEAD TROUT

FEDERAL LISTED SPECIES

FISHING TRIP

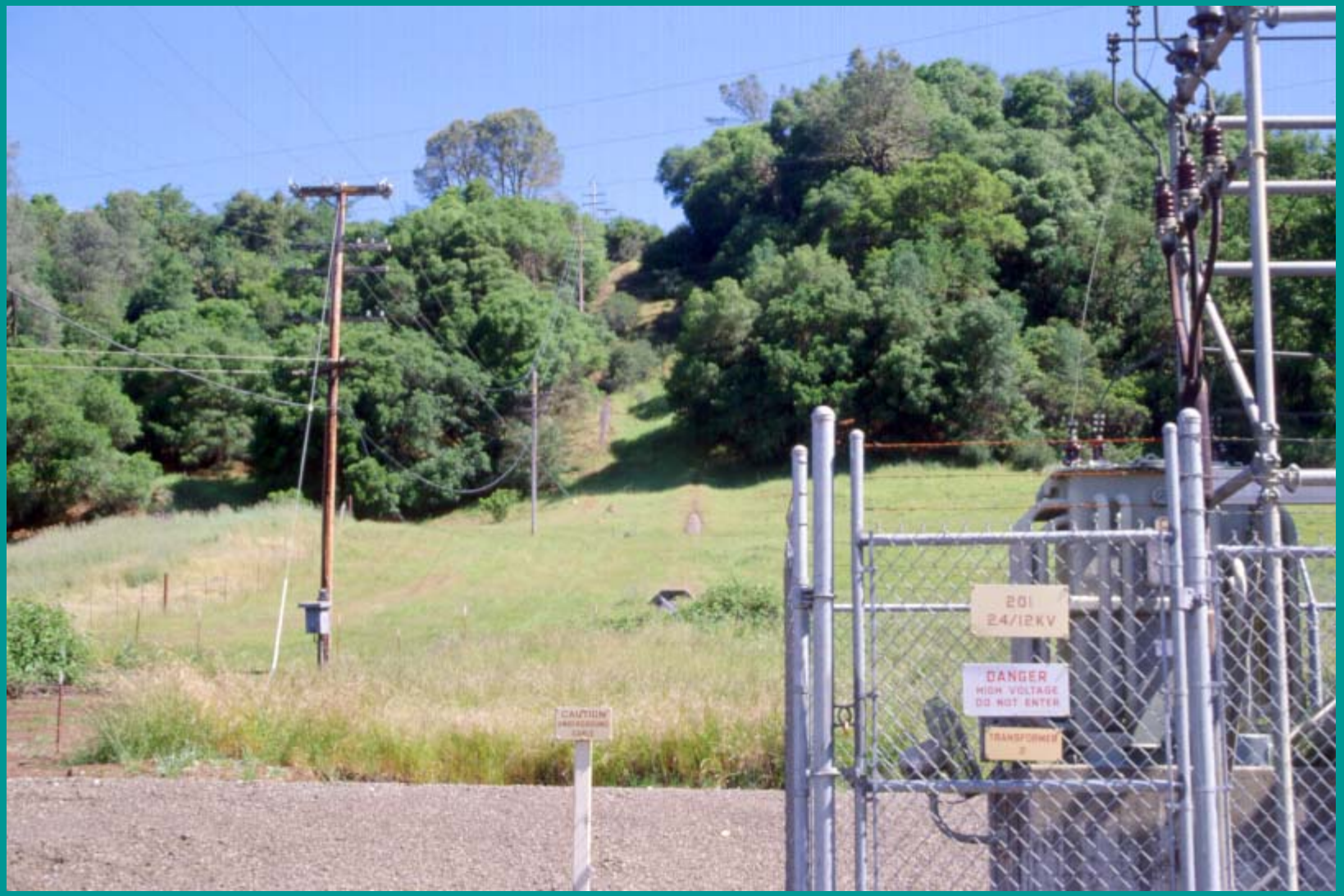
EEL RIVER
WATER DIVERSION

Diversion of an average of 160,000 acre feet per year of Eel River water into the Russian River

(about 10% of the Russian River's average annual flow)

VanArsdale Dam - Eel River Watershed

Upper Limit of Diversion Tunnel - Eel River Watershed



Lower Diversion Piping - Russian River Watershed

Eel River water released from power station - Potter Valley

DAMS

U.S. Army Corps of Engineers

COYOTE DAM/LAKE MENDOCINO

WARM SPRINGS DAM/LAKE SONOMA

(water supply, flood control & recreation)

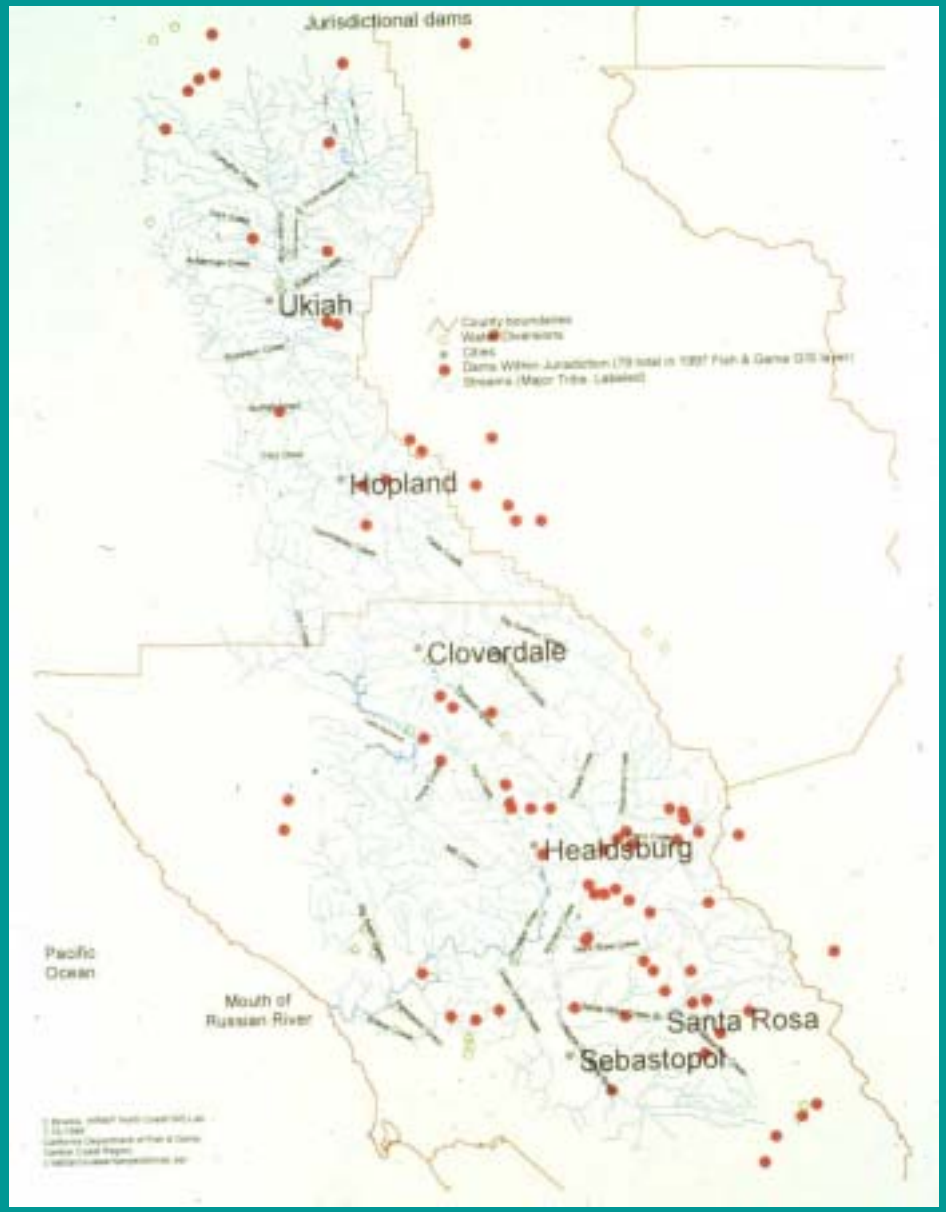
over 500 detention dams

privately or publicly owner and operated

LAKE MEDOCINO

LAKE SONOMA

“Hungry Water” - released from Warm Springs Dam



Over 500 Privately-Owned Detention Ponds

RUSSIAN RIVER WATER SUPPLY

- **provides water for 500,000 people in Mendocino, Sonoma, and Marin Counties**
- **Intensive agricultural use**

Sonoma County Water Agency Rubber Inflatable Dam

(normally inflated June though October)

Pumping Stations - Water Diversion

Intensive Agricultural Water Use

EROSION,
MASS WASTING
&
GRAVEL

- **Natural Process Impacted by the Use of Watershed Resources**
- **Roadways - Private and Public**
- **Agricultural Uses**

Historical Poster - showing Meandering Channel

Erosion Impacting Railroad Tracks

30 ft. Bank Erosion

Road Cut Erosion

Bridge Support Failure - Downcutting of Stream

Mass Wasting in Little Sulphur Creek - Upstream

Mass Wasting in Little Sulphur Creek - Downstream

Gravel Deposition

Gravel Deposition - Bank Erosion

Gravel Mining Operation

Intensive Agricultural Landuse Challenges

Sediment Laden Russian River

INVASIVE SPECIES
&
LIVESTOCK
MANAGEMENT

Arundo dornex

Livestock Impacts on Riparian Vegetation

RUSSIAN RIVER WATERSHED COUNCIL

Community Involvement Can Make the Difference

RUSSIAN RIVER WATERSHED COUNCIL

The mission of the Russian River Watershed Council is to protect, restore, and enhance the biological health of the Russian River and its watershed through a community-based process, which facilitates communication and collaboration among all interested parties.

Our primary goals are:

1)To ensure the recovery of the Russian River and its watershed to a condition such that the native wild anadromous fishery recovers to a healthy and sustainable level;

2) To ensure a strong, healthy, and diverse economy in the Russian River region; and

3) To promote stewardship of the Russian River and its watershed by developing an informed and engaged citizenry.

Russian River Watershed Council Voting

RUSSIAN RIVER WATERSHED COUNCIL

57 voting members with alternates, comprised of 3 caucus groups:

18 member ECONOMIC CAUCUS

18 member ENVIRONMENTAL CAUCUS

18 member PUBLIC CAUCUS

plus 3 members from Resource Conservation Districts representing the Russian River Watershed

Supported by: 20 member ex-officio AGENCY CAUCUS

RRWC Steering Committee

9 members - 3 members from each caucus group


NO
SMOKING

Mendocino County Supervisor Richard Shoemaker

Sonoma County Supervisor Mike Rielly

Discussion and Comments of Goals

RRWC Members signing up for Workgroups

7 WORK GROUPS

- **Public Outreach & Education**
- **Watershed Information, Assessment & Monitoring**
- **Salmonid Restoration**
- **Dam Operations**
- **Water Quality, Supply, & Quantity**
- **Tributary Cleanup**
- **Budget**

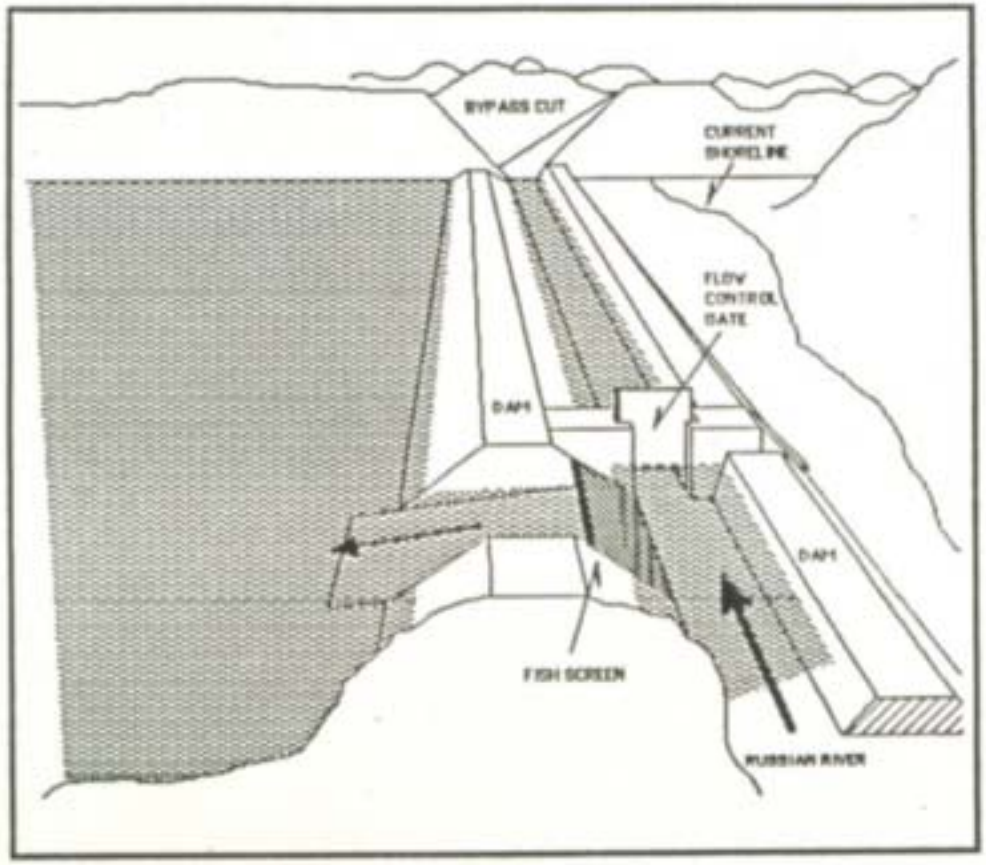


FIGURE 1.

Conceptual view of how the bypass channel would be situated at the north end of Lake Mendocino.

Coyote Dam Fishway Proposal

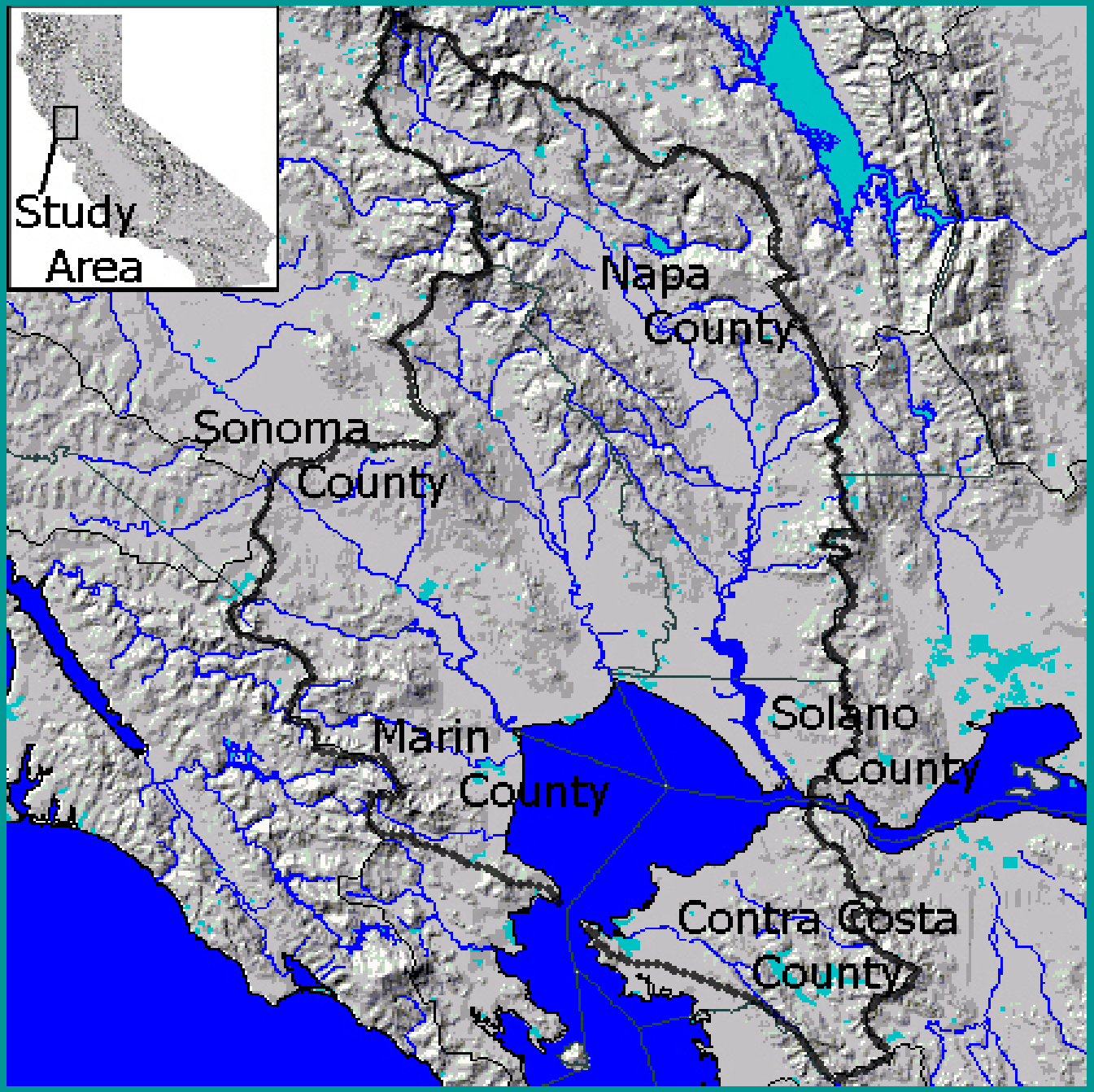
NEXT STEPS

- State support for a local RRWC Coordinator
- Biological Assessment of Selected Tributaries
- Development of Russian River Interactive Digital Library
- Water Rights Law Seminar
- Russian River Watershed Council Brochure
- Willow Creek Restoration Project proposal
- Coyote Dam Fishway proposal
- Scientific Panel

San Pablo Bay Watershed

- 5 Counties - Marin, Sonoma, Napa, Solano, Contra Costa
- 810 square miles catchment basin
- A complex area of historic baylands, tidal marsh, riverine estuarine systems, riparian corridors, and tributary stream channels
- Signed FCSA - June 1999
- A $5.2 Million - 3 Year Effort

www.spn.usace.army.mil/sanpablobay


Study
Area
Napa
County
Sonoma
County
Marin
County
Solano
County
Contra Costa
County

SAN PABLO BAYLANDS (Napa & Sonoma Counties)

SAN PABLO BAYLANDS (Sonoma & Marin Counties)

GALLINAS CREEK - Looking West (Marin County)

SONOMA CREEK (Sonoma County)

American Canyon Creek and Wetland (Napa & Solano Counties)

PINOLE CREEK - Looking East (Contra Costa County)

San Pablo Bay Watershed Local Involvement

•PLANNING COMMITTEE: California State Coastal Conservancy, U.S. Army Corps of Engineers, and the non-profit San Francisco Bay Institute.

•SCIENTIFIC & TECHNICAL REVIEW PANEL: U.S. Fish and Wildlife Service, Napa County Resource Conservation District, San Francisco Bay Regional Water Quality Control Board, San Francisco Estuary Project, Coastal Conservancy, Environmental Protection Agency, San Francisco Bay Joint Venture, Southern Sonoma Resource Conservation District, California Department of Fish and Game.

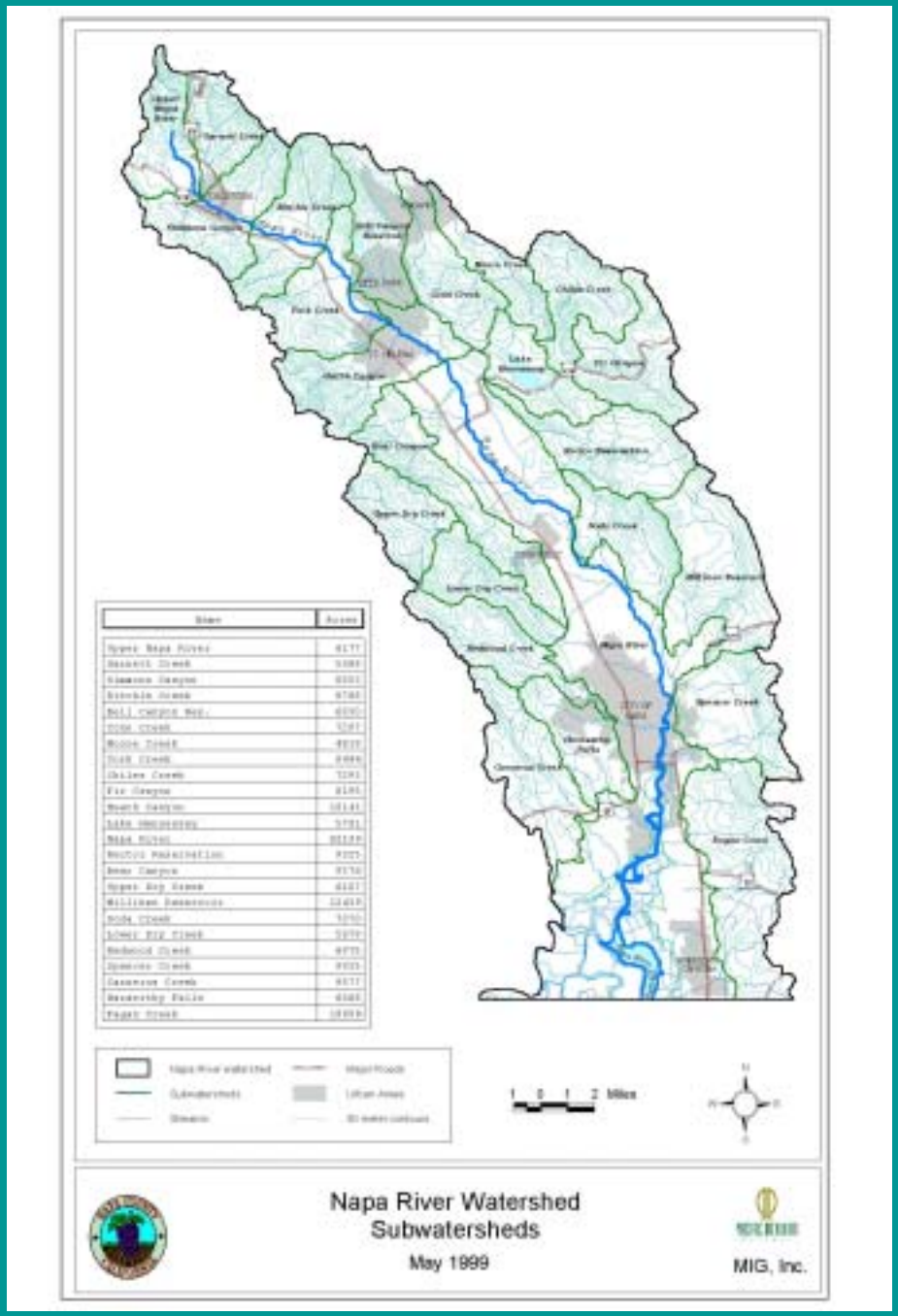
•SCOPING COMMITTEE: Marin County Audubon Society, Ducks Unlimited, Counties and Cities representatives, Waterways Restoration Institute, Parks and Recreational Districts, Water Supply and Water Discharge Districts, other interested parties.

NEXT STEP

- **Complete Framework Plan - November 2000**
- **Spin-off Sonoma Creek Watershed Restoration Effort**
- **Submit American Canyon Creek &Wetland Restoration Project**
- **Develop Pinole Creek Restoration Project**
- **Develop Gallinas Creek Restoration Project**

NAPA VALLEY WATERSHED

- **400 square miles catchment basin**
- **Riverine and estuarine systems, riparian corridors, oak woodlands, and tributary stream channels - 47 major tributaries to the Napa River**
- **FCSA projected for November 2000**
- **$5.5 Million - 5 Year Effort**

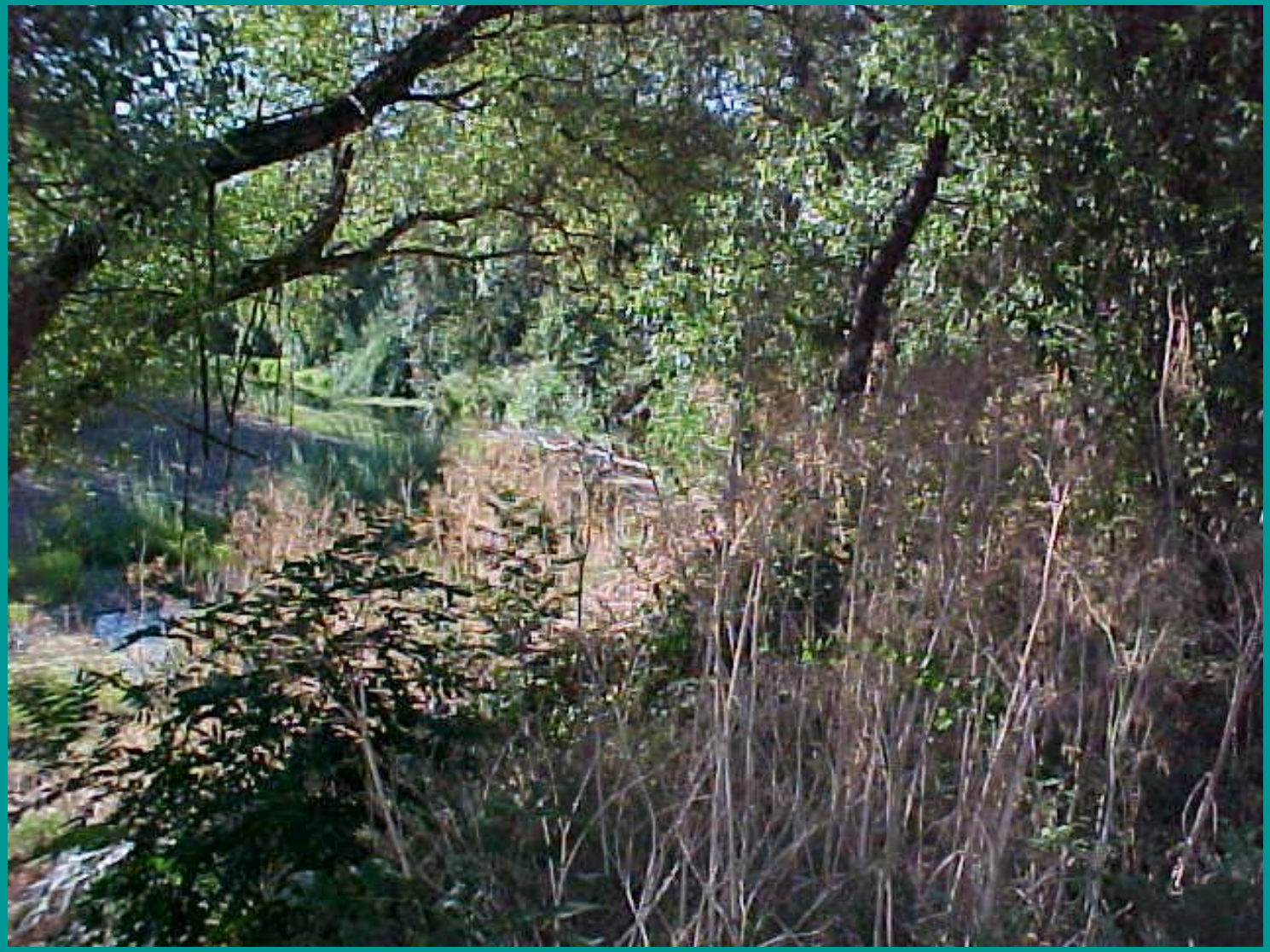

Napa River Watershed
Subwatersheds
May 1999
MIG, Inc.

Garrnett Creek (near Calistoga)

Napa River (near St. Helena)

adjacent to mobile home park

Vineyard Valley Mobile Home Park



Napa River (looking south)

Hopper Creek (Yountville)

Hopper Creek (adjacent to mobile home park)

Napa County Watershed Task Force

2 Year Effort

15 member group

3 representatives for each Napa County Supervisors

Major Objectives:

Strengthen the Erosion Control Plan

Identify next steps to resolve watershed issues

NEXT STEPS

- **Support Napa County Watershed Task Force recommends**
- **Napa Valley Watershed Conservancy**
- **Napa Valley Watershed Information Center**
- **Napa Valley Adaptive Watershed Management Plan**

WHY WATERSHEDS?

- **LOCAL COMMUNITIES IDENTY WITH “THEIR” WATERSHED**
- **MORE INCLUSIVE OF DIVERSE COMMUNITY NEEDS**
- **WATERSHEDS ARE DISCRETE SYSTEMS THAT CAN BE MODELED**

A COMPREHENSIVE WATERSHED APPROACH

ADDRESSES THE INCREASING DEMANDS PLACED ON OUR NATION'S WATER RESOURCES

&

FACILITATES THE PRESERVATION AND PROTECTION OF OUR WATER RESOURCES FOR FUTURE GENERATIONS